

Column Label	Definition	Units	Example
City	City in which the collection site resides	n/a	Anytown
State	State in which the collection site resides	n/a	CA
State_Abbr	State in which the collection site resides	n/a	California
Plant	Plant name as shown on the website	n/a	American County, CA
Site_Name	Full name of collection site	n/a	Anytown USA Wastewater Treatment Facility
Zipcode	Zip code of the collection site	n/a	90210
Population_Served	Human population contribution to the sewershed of the collection site	n/a	7000000
County_FIPS	Counties served by collection site	n/a	06041
Collection_Date	Date sample was collected (YYYY-MM-DD)	n/a	2022-01-01
Sample_ID	Unique identifier for each specimen	n/a	XX-XXXXXX
Dilution	The dilution of RNA used in the PCR. A value of '1' indicates no dilution. A value of '10' indicates the RNA has been diluted 1:10 with H2O.	n/a	
SC2_N_gc_g_dry_weight	Copies of SARS-CoV-2 RNA from the nucleocapsid gene per gram of dried solid	copies per gram of dry solid sample	
SC2_N_gc_g_dry_weight_UCI	68% upper confidence level of copies of SARS-CoV-2 RNA from the nucleocapsid gene per gram of dried solid	copies per gram of dry solid sample	
SC2_N_gc_g_dry_weight_LCI	68% lower confidence level of copies of SARS-CoV-2 RNA from the nucleocapsid gene per gram of dried solid	copies per gram of dry solid sample	
SC2_S_gc_g_dry_weight	Copies of SARS-CoV-2 RNA from the spike gene per gram of dried solid	copies per gram of dry solid sample	
SC2_S_gc_g_dry_weight_UCI	68% upper confidence level of copies of SARS-CoV-2 RNA from the spike gene per gram of dried solid	copies per gram of dry solid sample	
SC2_S_gc_g_dry_weight_LCI	68% lower confidence level of copies of SARS-CoV-2 RNA from the spike gene per gram of dried solid	copies per gram of dry solid sample	
SC2_S_norm_PMMoV	The ratio of SARS-CoV-2 S gene RNA to PMMoV RNA	copies per gram of dry solid sample	
SC2_Omicron_Del143145_gc_g_dry_weight	Copies of SARS-CoV-2 RNA from the S:143-145 deletion (indicative of BA.1) per gram of dried solid	copies per gram of dry solid sample	
SC2_Omicron_Del143145_gc_g_dry_weight_UCI	68% upper confidence level of copies of SARS-CoV-2 RNA from the S:143-145 deletion (indicative of BA.1) per gram of dried solid	copies per gram of dry solid sample	
SC2_Omicron_Del143145_gc_g_dry_weight_LCI	68% lower confidence level of copies of SARS-CoV-2 RNA from the S:143-145 deletion (indicative of BA.1) per gram of dried solid	copies per gram of dry solid sample	
SC2_Omicron_Del143145_norm_PMMoV	The ratio of SARS-CoV-2 RNA from the S:143-145 deletion (indicative of BA.1) to PMMoV RNA	n/a	
SC2_Delta_156157_gc_g_dry_weight	Copies of SARS-CoV-2 RNA from the S:156-157 deletion (indicative of Delta) per gram of dried solid	copies per gram of dry solid sample	
SC2_Delta_156157_gc_g_dry_weight_UCI	68% upper confidence level of copies of SARS-CoV-2 RNA from the S:156-157 deletion (indicative of Delta) per gram of dried solid	copies per gram of dry solid sample	
SC2_Delta_156157_gc_g_dry_weight_LCI	68% lower confidence level of copies of SARS-CoV-2 RNA from the S:156-157 deletion (indicative of Delta) per gram of dried solid	copies per gram of dry solid sample	
SC2_BA_2_LPPA24S_gc_g_dry_weight	Copies of SARS-CoV-2 RNA from the S:LPPA24S deletion (indicative of BA.2) per gram of dried solid	copies per gram of dry solid sample	
SC2_BA_2_LPPA24S_gc_g_dry_weight_UCI	68% upper confidence level of copies of SARS-CoV-2 RNA from the S:LPPA24S deletion (indicative of BA.2) per gram of dried solid	copies per gram of dry solid sample	
SC2_BA_2_LPPA24S_gc_g_dry_weight_LCI	68% lower confidence level of copies of SARS-CoV-2 RNA from the S:LPPA24S deletion (indicative of BA.2) per gram of dried solid	copies per gram of dry solid sample	
SC2_BA_2_LPPA24S_norm_PMMoV	The ratio of SARS-CoV-2 RNA from the S:LPPA24S mutation (indicative of BA.1) to PMMoV RNA	n/a	
RSV_gc_g_dry_weight	Copies of RSV RNA per gram of dried solid	copies per gram of dry solid sample	
RSV_gc_g_dry_weight_UCI	68% upper confidence level of copies of RSV RNA per gram of dried solid	copies per gram of dry solid sample	
RSV_gc_g_dry_weight_LCI	68% lower confidence level of copies of RSV RNA per gram of dried solid	copies per gram of dry solid sample	
Influenza_A_gc_g_dry_weight	Copies of influenza A RNA per gram of dried solid	copies per gram of dry solid sample	
Influenza_A_gc_g_dry_weight_UCI	68% upper confidence level of copies of influenza A RNA per gram of dried solid	copies per gram of dry solid sample	
Influenza_A_gc_g_dry_weight_LCI	68% lower confidence level of copies of influenza A RNA per gram of dried solid	copies per gram of dry solid sample	
PMMoV_gc_g_dry_weight	Copies of PMMoV RNA per gram of dried solid	copies per gram of dry solid sample	
PMMoV_gc_g_dry_weight_UCI	68% upper confidence level of PMMoV RNA per gram of dried solid	copies per gram of dry solid sample	
PMMoV_gc_g_dry_weight_LCI	68% lower confidence level of PMMoV RNA per gram of dried solid	copies per gram of dry solid sample	
SC2_N_gc_g_dry_weight_trimmed5	A 5-sample, centered average of SC2_N_gc_g_dry_weight without the highest and lowest values	copies per gram of dry solid sample	
SC2_S_gc_g_dry_weight_trimmed5	A 5-sample, centered average of SC2_S_gc_g_dry_weight without the highest and lowest values	copies per gram of dry solid sample	
SC2_S_norm_PMMoV_trimmed5	A 5-sample, centered average of the ratio of SC2_S_norm_PMMoV without the highest and lowest values	n/a	
SC2_Omicron_Del143145_gc_g_dry_weight_trimmed5	A 5-sample, centered average of SC2_Omicron_Del143145_gc_g_dry_weight without the highest and lowest values	copies per gram of dry solid sample	

SC2_Omicron_Del143145_norm_PMMoV_trimmed5	A 5-sample, centered average of the ratio of SC2_Omicron_Del143145_norm_PMMoV without the highest and lowest values	n/a	
SC2_Delta_156157_gc_g_dry_weight_trimmed5	A 5-sample, centered average of SC2_Delta_156157_gc_g_dry_weight dry weight without the highest and lowest values	copies per gram of dry solid sample	
SC2_BA_2_LPPA24S_gc_g_dry_weight_trimmed5	A 5-sample, centered average of SC2_BA_2_LPPA24S_gc_g_dry_weight dry weight without the highest and lowest values	copies per gram of dry solid sample	
SC2_BA_2_LPPA24S_norm_PMMoV_trimmed5	A 5-sample, centered average of SC2_BA_2_LPPA24S_norm_PMMoV without the highest and lowest values	n/a	
RSV_gc_g_dry_weight_trimmed5	A 5-sample, centered average of RSV_gc_g_dry_weight dry weight without the highest and lowest values	copies per gram of dry solid sample	
Influenza_A_gc_g_dry_weight_trimmed5	A 5-sample, centered average of Influenza_A_gc_g_dry_weight dry weight without the highest and lowest values	copies per gram of dry solid sample	
PMMoV_gc_g_dry_weight_trimmed5	A 5-sample, centered average of PMMoV_gc_g_dry_weight without the highest and lowest values	copies per gram of dry solid sample	
SC2_N_num_wells	The number of droplet digital PCR reactions run for the SARS-CoV-2 N Gene	number of reactions	
SC2_S_num_wells	The number of droplet digital PCR reactions run for the SARS-CoV-2 S Gene	number of reactions	
SC2_Omicron_Del143145_num_wells	The number of droplet digital PCR reactions run for the SARS-CoV-2 S:143-145 deletion (indicative of BA.1)	number of reactions	
SC2_Delta_156157_num_wells	The number of droplet digital PCR reactions run for the SARS-CoV-2 S:156-157 deletion (indicative of Delta)	number of reactions	
SC2_BA_2_LPPA24S_num_wells	The number of droplet digital PCR reactions run for the SARS-CoV-2 LPPA24S mutation (indicative of BA.2)	number of reactions	
RSV_num_wells	The number of droplet digital PCR reactions run for RSV	number of reactions	
Influenza_A_num_wells	The number of droplet digital PCR reactions run for Influenza A	number of reactions	
PMMoV_num_wells	The number of droplet digital PCR reactions run for PMMoV	number of reactions	
SC2_BA_4_ORF1a_Del141143_gc_g_dry_weight	Copies of SARS-CoV-2 RNA from the ORF1a:141-143 deletion (indicative of BA.4) per gram of dried solid	copies per gram of dry solid sample	
SC2_BA_4_ORF1a_Del141143_gc_g_dry_weight_UCI	68% upper confidence interval of copies of SARS-CoV-2 RNA from the ORF1a:141-143 deletion (indicative of BA.4) per gram of dried solid	copies per gram of dry solid sample	
SC2_BA_4_ORF1a_Del141143_gc_g_dry_weight_LCI	68% lower confidence interval of copies of SARS-CoV-2 RNA from the ORF1a:141-143 deletion (indicative of BA.4) per gram of dried solid	copies per gram of dry solid sample	
SC2_BA_4_ORF1a_Del141143_norm_PMMoV	The ratio of SARS-CoV-2 RNA from the ORF1a:141-43 deletion (indicative of BA.1) to PMMoV RNA	n/a	
SC2_BA_4_ORF1a_Del141143_gc_g_dry_weight_trimmed5	A 5-sample, centered average of SC2_BA_4_ORF1a_Del141143 without the highest and lowest values	copies per gram of dry solid sample	
SC2_BA_4_ORF1a_Del141143_norm_PMMoV_trimmed5	A 5-sample, centered average of SC2_BA_4_ORF1a_Del141143_norm_PMMoV without the highest and lowest values	n/a	
SC2_BA_4_ORF1a_Del141143_num_wells	The number of droplet digital PCR reactions run for SARS-Cov-2 ORF1a:141-143 deletion (indicative of BA.4)	number of reactions	
HV_69_70_Del_gc_g_dry_weight	Copies of SARS-CoV-2 RNA from the S:HV69-70 deletion (indicative of Alpha, Omicron BA.1, BA.4, and/or BA.5) per gram of dried solid. Note that this mutation was used to detect the Alpha variant from April 2021 to August 2021, the Omicron BA.1 variant from November 2021 to December 2021, and the Omicron BA.4 and BA.5 variants from June 2022 onwards	copies per gram of dry solid sample	
HV_69_70_Del_gc_g_dry_weight_UCI	68% upper confidence interval of copies of SARS-CoV-2 RNA from the S:HV69-70 deletion (indicative of Alpha, Omicron BA.1, BA.4, and/or BA.5) per gram of dried solid	copies per gram of dry solid sample	
HV_69_70_Del_gc_g_dry_weight_LCI	68% lower confidence interval of copies of SARS-CoV-2 RNA from the S:HV69-70 deletion (indicative of Alpha, Omicron BA.1, BA.4, and/or BA.5) per gram of dried solid	copies per gram of dry solid sample	
HV_69_70_Del_norm_PMMoV	The ratio of SARS-Cov-2 RNA from the S:HV60-70 deletion (indicative of Alpha, Omicron, BA.1, BA.4, and/or BA.5) to PMMoV RNA	n/a	
HV_69_70_Del_gc_g_dry_weight_trimmed5	A 5-sample, centered average of HV_69_70_Del_gc_g_dry_weight without the highest and lowest values	copies per gram of dry solid sample	
HV_69_70_Del_norm_PMMoV_trimmed5	A 5-sample, centered average of HV69_70_Del_norm_PMMoV without the highest and lowest values	copies per gram of dry solid sample	
HV_69_70_Del_num_wells	The number of droplet digital PCR reactions run for SARS-Cov-2 RNA from the S:HV69-70 deletion (indicative of Alpha, Omicron, BA.1, BA.4, and/or BA.5)	number of reactions	
MPXV_G2R_G_gc_g_dry_weight	Copies of MPXV DNA per gram of dried solid	copies per gram of dry solid sample	
MPXV_G2R_G_gc_g_dry_weight_UCI	68% upper confidence level of copies of MPXV DNA per gram of dried solid	copies per gram of dry solid sample	
MPXV_G2R_G_gc_g_dry_weight_LCI	68% lower confidence level of copies of MPXV DNA per gram of dried solid	copies per gram of dry solid sample	
MPXV_G2R_G_norm_PMMoV	The ratio of MPXV DNA to PMMoV RNA	n/a	
MPXV_G2R_G_gc_g_dry_weight_trimmed5	A 5-sample, centered average of MPXV_G2R_G_gc_g_dry_weight without the highest and lowest values	copies per gram of dry solid sample	

MPXV_G2R_G_norm_PMMoV_trimmed5	A 5-sample, centered average of MPXV_G2R_G_norm_PMMoV without the highest and lowest values	copies per gram of dry solid sample	
MPXV_G2R_G_num_wells	The number of droplet digital PCR reactions run for MPXV DNA	number of reactions	
MPXV_G2R_WA_gc_g_dry_weight	Copies of MPXV Clade II DNA per gram of dried solid	copies per gram of dry solid sample	
MPXV_G2R_WA_gc_g_dry_weight_UCI	68% upper confidence level of copies of MPXV Clade II DNA per gram of dried solid	copies per gram of dry solid sample	
MPXV_G2R_WA_gc_g_dry_weight_LCI	68% lower confidence level of copies of MPXV Clade II DNA per gram of dried solid	copies per gram of dry solid sample	
MPXV_G2R_WA_norm_PMMoV	The ratio of MPXV_G2R DNA to PMMoV RNA	n/a	
MPXV_G2R_WA_gc_g_dry_weight_trimmed5	A 5-sample, centered average of MPXV_G2R_WA_gc_g_dry_weight without the highest and lowest values	copies per gram of dry solid sample	
MPXV_G2R_WA_norm_PMMoV_trimmed5	A 5-sample, centered average of MPXV_G2R_WA_norm_PMMoV without the highest and lowest values	n/a	
MPXV_G2R_WA_gc_num_wells	The number of droplet digital PCR reactions run for MPXV Clade II DNA	number of reactions	
Noro_G2_gc_g_dry_weight_trimmed5	A 5-sample, centered average of Noro_G2_gc_g_dry_weight without the highest and lowest values	copies per gram of dry solid sample	
Noro_G2_gc_g_dry_weight	Copies of Norovirus GII RNA per gram of dried solid	copies per gram of dry solid sample	
Noro_G2_gc_g_dry_weight_UCI	68% upper confidence level of copies of Norovirus GII RNA per gram of dried solid	copies per gram of dry solid sample	
Noro_G2_gc_g_dry_weight_LCI	68% lower confidence level of copies of Norovirus GII RNA per gram of dried solid	copies per gram of dry solid sample	
Noro_G2_norm_PMMoV	The ratio of Norovirus GII RNA to PMMoV RNA	n/a	
Noro_G2_norm_PMMoV_trimmed5	A 5-sample, centered average of Noro_G2_norm_PMMoV without the highest and lowest values	copies per gram of dry solid sample	
Noro_G2_num_wells	The number of droplet digital PCR reactions run for Norovirus GII RNA	number of reactions	
Influenza_B_gc_g_dry_weight_trimmed5	A 5-sample, centered average of Influenza_B_gc_g_dry_weight without the highest and lowest values	copies per gram of dry solid sample	
Influenza_B_norm_PMMoV_trimmed5	A 5-sample, centered average of Influenza_B_norm_PMMoV without the highest and lowest values	copies per gram of dry solid sample	
Influenza_B_gc_g_dry_weight	Copies of Influenza B RNA per gram of dried solid	copies per gram of dry solid sample	
Influenza_B_gc_g_dry_weight_UCI	68% upper confidence level of copies of Influenza B RNA per gram of dried solid	copies per gram of dry solid sample	
Influenza_B_gc_g_dry_weight_LCI	68% lower confidence level of copies of Influenza B RNA per gram of dried solid	copies per gram of dry solid sample	
Influenza_B_norm_PMMoV	The ratio of Influenza B RNA to PMMoV RNA	n/a	
Influenza_B_num_wells	The number of droplet digital PCR reactions run for Influenza B RNA	number of reactions	
HMPV_4_gc_g_dry_weight	Copies of human Metapneumovirus RNA per gram of dried solid	copies per gram of dry solid sample	
HMPV_4_gc_g_dry_weight_UCI	68% upper confidence level of copies of human Metapneumovirus RNA per gram of dried solid	copies per gram of dry solid sample	
HMPV_4_gc_g_dry_weight_LCI	68% lower confidence level of copies of human Metapneumovirus RNA per gram of dried solid	copies per gram of dry solid sample	
HMPV_4_norm_PMMoV	The ratio of human Metapneumovirus RNA to PMMoV RNA	n/a	
HMPV_4_gc_g_dry_weight_trimmed5	A 5-sample, centered average of HMPV_4_gc_g_dry_weight without the highest and lowest values	copies per gram of dry solid sample	
HMPV_4_norm_PMMoV_trimmed5	A 5-sample, centered average of HMPV_4_norm_PMMoV without the highest and lowest values	copies per gram of dry solid sample	
HMPV_4_num_wells	The number of droplet digital PCR reactions run for human Metapneumovirus RNA	number of reactions	